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Venable				EXAMINER	
P.O.Box 34385				MCELWAIN, ELIZABETH F	
	Washington, DC 20043-9998		·		
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				1638	100
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Elizabeth F. McEwain 1638 1638		Application No.	Applicant(s)					
Examiner Elizabeth F, McElvain			Applicant(s)					
Elizabeth F. McElwan 1938	Office Action Summany							
Peri d for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. E-bearboard of time may be available under the previsions of 3 CFR 1.1360, in no event, however, may a reply be timely filled after SX (8) MONTH'S from the making date of this communication. E-bearboard of time may be available under the previsions of 3 CFR 1.1360, in no event, however, may a reply be timely filled after SX (8) MONTH'S from the making date of this communication. E-bearboard or time may be available under the previsions of 3 CFR 1.1360, in no event, however, may a reply be timely filled after SX (8) MONTH'S from the making date of this communication. Fill NO period for reply is specified above, he maintern allustry parted will apply and will apply 80 (8) MONTH'S from the making date of this communication. Fall No period of the fill of the state of extended period for reply will, by statutor, and the communication, won a family filled, may reduce a my Status 1) SE Responsive to communication(s) filled on 05 May 2003 2a) This action is FINAL. 2b) This action is FINAL. 2c) The action is application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.2.13.16-21.23 and 30-34 is/are pending in the application. 4) Claim(s) 1.2.2.12.13.16-21.23 and 30-34 is/are rejected. 7) Claim(s) 1.2.2.12.13.16-21.23 and 30-34 is/are rejected. 3) Claim(s) 1.2.2.1	Office Action Summary							
Peri d for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of lines may be available under for provisions of 37 CFR 1.15(6). In no event, however, may a reply be limitely filled Extensions of lines may be available under for provisions of 37 CFR 1.15(6). In no event, however, may a reply be limitely filled Extensions of lines may be available under for provisions of 37 CFR 1.15(6). In no event, however, may a reply be limitely filled Extensions of lines may be available under for the provisions of the provision of Claims A) Claim (s) 1.2.8.12.13.16.21.23 and 30-34 is/are pending in the application. 4a) Claim (s) 1.2.8.12.13.17.21.23 and 30-34 is/are rejected. Claim (s) 1.2.1.2.13.17.21.23 and 30-34 is/are rejected. Claim (s) 1.2.1.2.13.17.21.23 and 30-34 is/are rejected. Claim (s) 1.2.1.2.13.17.21.23 and 30-34 is/are rejected. The drawing (s) filled on is/are objected to by the Examiner. Application Papers 9) The provision or request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.55(a). 11) The orath or request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.55(a). 12) The proposed drawing correction filed on is/are: a) accepted or b objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The orath or declaration is objected to by the Examiner. Pri rity under 35 U.S.C. § 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)	The MAILING DATE of this communication and							
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be valiable under the provisions of 3 CPR 1.13(a). In no event, however, may a rap't be timely filled after SX (8) MONTIST from the mailing date of this communication. If the period for pray specified above is less than thinky (30) days, a reply within the statistion principan and thinky (30) days will be considered timely. If the period for pray specified above is less than them with (30) days, a reply within the statistion principan and thinky (30) days will be considered timely. Failure to reply within the lead or extended period for reply will. By statistic, cause the application to become ABANDONED (38 U.S.C. § 133). Any reply received by the Office less than there monitary that state the mailing date of this communication, even if timely filled, may reduce any seamed patient term edipation is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.8.12.13.16-21.23 and 30-34 is/are pending in the application. 4a) Of the above claim(s) 8 and 16 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 9) The specification is objected to by the Examiner. Application Papers 9) The proposed drawing correction filed on is: a) accepted or b) objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Pri rity under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received in Application No 2 The translation of the foreign language provisional application has	·							
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The amendment filed May 5, 2003 has been entered.

Claims 3, 4, 6, 7, and 14 have been entered.

Claims 1, 8, 12, 13, 16 and 18 are newly amended.

Claims 32-34 are newly submitted.

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This application contains claims 8 and 16 drawn to an invention nonelected with traverse in Paper No. 12. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claims 8 and 16 are withdrawn as drawn to non-elected inventions.

Claims 1, 2, 12, 13, 17-21, 23, 30 and 31-34 are drawn to the elected invention and are examined in the instant office action.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 12, 19 and 32-34, and claims 13, 17-21, 23, 30 and 32-34 dependent thereon, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12 is indefinite in that it does not specify the order of the nucleic acid coding sequence, the promoter and the termination region.

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Claim 19 is indefinite in the recitation of "oleaginous", since this can be defined either as relating to olive trees or as relating to oil, and it is unclear which is intended. Furthermore,

if the second definition is intended, then it is unclear how it would further limit the claim, since all plant cells make oil in some form, as stated in the last office action.

Claims 32-34 are indefinite in the recitation of promoter region, because it is unclear if this means all or part of the sequence that functions to promote transcription.

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Applicant's arguments filed May 5, 2003 have been fully considered but they are not persuasive. With regard to the use of "oleaginous", applicants assert that it is clearly defined at page 5, lines 12-15, and that this term was well known in the art to refer to cells that accumulate large amounts of lipid. The Examiner maintains that applicants definition in the specification is open-ended and therefore does not specifically define the intended group of plants. In addition, dictionaries refer to "oleaginous" as relating to oil, but not limited to the accumulation of large amounts of lipid in a plant cell. The term does not clearly set forth what plant species would be encompassed in the claimed genus.

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Claims 1, 2, 12, 13, 17-21, 23, 30 and 31-34 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention, as stated in the last office action. In addition, the specification fails to adequately describe the genus of methyl transferase genes, wherein different types of methyl transferases are used in a wide variety of cellular processes, and the specification only describes two, at pages 7 and 8.

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Applicant's arguments filed May 5, 2003 have been fully considered but they are not persuasive. Applicants argue that the rejection should be withdrawn given the amendment of the claims to recite that the nucleic acid encodes a methyl transferase and the specification discloses two methyltransferase genes. The Examiner maintains that a description of two methlytransferases does not adequately describe the entire genus that is claimed.

Claims 1, 2, 12, 13, 17-21, 23, 30 and 31-34 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention for the reasons set forth in the scope of enablement rejection in the last office action, wherein the specification, while being enabling for transforming tobacco with a cyclopropane fatty acid synthase gene to produce branched fatty acids in a plant, does not reasonably provide enablement for the production of branched fatty acids in any plant with any gene that encodes an enzyme that will transfer one or more alkyl groups to the double bond of an unsaturated fatty acid. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims, as stated in the last office action.

In addition, the claims are now limited to use of a methyl transferase gene, yet the specification does not enable the use of a methyl transferase gene and furthermore does not enable the use of any or all methyltransferases in the claimed method. There are many

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different methyl transferase genes that are required for a wide variety of different cellular processes. Yet, the specification does not provide an example for use of any of these to produce a branched fatty acid, nor does the specification provide guidance with regard to choosing among the many methyltransferases to identify any that would act in this manner when transformed into a plant cell. Therefore, for the reasons already of record, it would require undue experimentation to make and/or use the claimed invention.

Applicant's arguments filed May 5, 2003 have been fully considered but they are not persuasive. Applicants assert that the rejection should be withdrawn. Applicants argue that the claims have been amended to recite that the nucleic acid codes for a methyltransferase and states that the examples and figures show an example of a methyltransferase, and the specification describes making a construct and transforming a plant.

The Examiner maintains that the disclosure is only enabling for transforming tobacco with a cyclopropane fatty acid synthase gene to produce branched fatty acids in a plant, does not reasonably provide enablement for the production of branched fatty acids in any plant with any gene that encodes an enzyme that will transfer one or more alkyl groups to the double bond of an unsaturated fatty acid. The teachings in the specification regarding methyltransferase genes are prophetic. Therefore, for the reasons stated in the last office action, it would require undue experimention for one skilled in the art to make and/or use the claimed invention.

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Claims 12 13 17, 18 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Fritig et al (U.S. Patent 5,959,178).

The claims are drawn to a recombinant nucleic acid comprising a nucleic acid coding for a methyltransferase, a plant expressible promoter and a termination region, and plant cells and plants transformed therewith.

Fritig et al (U.S. Patent 5,959,178) teaches a recombinant nucleic acid comprising a nucleic acid coding for a methyltransferase, a plant expressible promoter and a termination region, including a CaMV 35S promoter, and plant cells and plants transformed therewith (see columns 9-10).

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No claims are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth F. McElwain whose telephone number is (703) 308-1794. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached at (703) 306-3218. The fax phone number for this Group is (703) 308-4242. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989).

Any inquiry of a general nature or relating to the status of this application should be directed to the legal analyst, Gwendolyn Payne, whose telephone number is (703) 305-2475, or to the Group receptionist whose telephone number is (703) 308-0196.

Elizabeth F. McElwain, Ph.D. July 14, 2003

LIZABETH F. McELWAIN PRIMARY EXAMINER GROUP 1800